

Title (en)  
INERTIA WHEEL ARCHITECTURE FOR STORING ENERGY

Title (de)  
SCHWUNGRADARCHITEKTUR ZUR SPEICHERUNG

Title (fr)  
ARCHITECTURE DE ROUE D'INERTIE POUR LE STOCKAGE D'ENERGIE

Publication  
**EP 2771181 A1 20140903 (FR)**

Application  
**EP 12778334 A 20121024**

Priority

- FR 1159653 A 20111025
- EP 2012071016 W 20121024

Abstract (en)  
[origin: WO2013060704A1] The invention relates to an inertia wheel comprising a storage ring (1) and a hub (2) connecting the storage ring (1) to a rotation shaft (3) of the wheel, said hub (2) comprising a central part forming a hub body (2a) for connecting to the shaft (3), a peripheral part forming a rim (2c) for connecting to the storage ring and an intermediate part formed by a disk (2b) between the hub body and the rim. The inertia wheel is characterised in that the hub is made from a composite material and includes a module having a stiffness that decreases from the hub body to the rim. The invention also relates to the method for producing such an inertia wheel.

IPC 8 full level  
**B32B 3/02** (2006.01); **B29C 70/28** (2006.01); **B32B 5/26** (2006.01); **F16F 15/00** (2006.01)

CPC (source: EP KR RU US)  
**B29C 70/06** (2013.01 - KR US); **B29C 70/28** (2013.01 - EP KR US); **B29C 70/345** (2013.01 - EP KR US); **B29C 70/545** (2013.01 - EP KR US); **B32B 3/02** (2013.01 - KR RU); **B32B 5/26** (2013.01 - KR); **F16F 15/30** (2013.01 - EP US); **F16F 15/305** (2013.01 - KR US); **F16F 15/31** (2013.01 - KR); **B29K 2101/12** (2013.01 - EP KR US); **B29K 2105/12** (2013.01 - EP KR US); **B29K 2307/04** (2013.01 - EP KR US); **B29L 2009/00** (2013.01 - EP KR US); **B29L 2031/34** (2013.01 - EP KR US); **B29L 2031/7728** (2013.01 - EP KR US); **F16F 2224/0241** (2013.01 - KR US); **F16F 2226/04** (2013.01 - KR US); **F16F 2230/00** (2013.01 - KR US); **F16F 2234/00** (2013.01 - KR US); **Y02E 60/16** (2013.01 - EP KR US); **Y10T 74/2132** (2015.01 - EP US); **Y10T 156/1026** (2015.01 - EP US)

Citation (search report)  
See references of WO 2013060704A1

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)  
**FR 2981603 A1 20130426**; **FR 2981603 B1 20140117**; CA 2852806 A1 20130502; CA 2852806 C 20200128; CN 103958175 A 20140730; CN 103958175 B 20160907; EP 2771181 A1 20140903; EP 2771181 B1 20160113; ES 2568277 T3 20160428; HK 1198975 A1 20150619; IL 232214 A0 20140630; IL 232214 A 20170928; JP 2015505937 A 20150226; JP 6345117 B2 20180620; KR 102099992 B1 20200410; KR 20140107184 A 20140904; RU 2014121079 A 20151210; RU 2607213 C2 20170110; US 2015047458 A1 20150219; WO 2013060704 A1 20130502

DOCDB simple family (application)  
**FR 1159653 A 20111025**; CA 2852806 A 20121024; CN 201280052778 A 20121024; EP 12778334 A 20121024; EP 2012071016 W 20121024; ES 12778334 T 20121024; HK 14112501 A 20141212; IL 23221414 A 20140424; JP 2014537588 A 20121024; KR 20147011130 A 20121024; RU 2014121079 A 20121024; US 201214354063 A 20121024